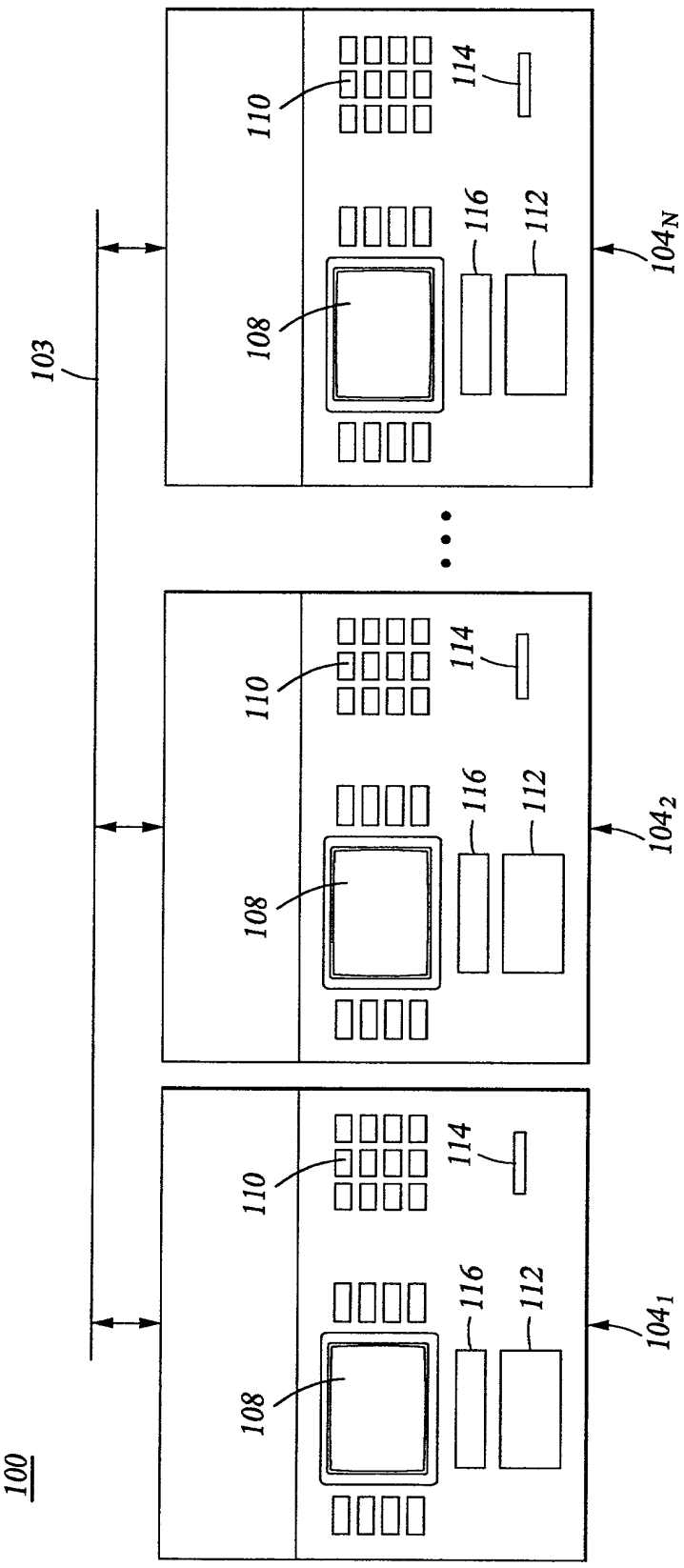


Fig. 1

Express Mail No. EL849146396US

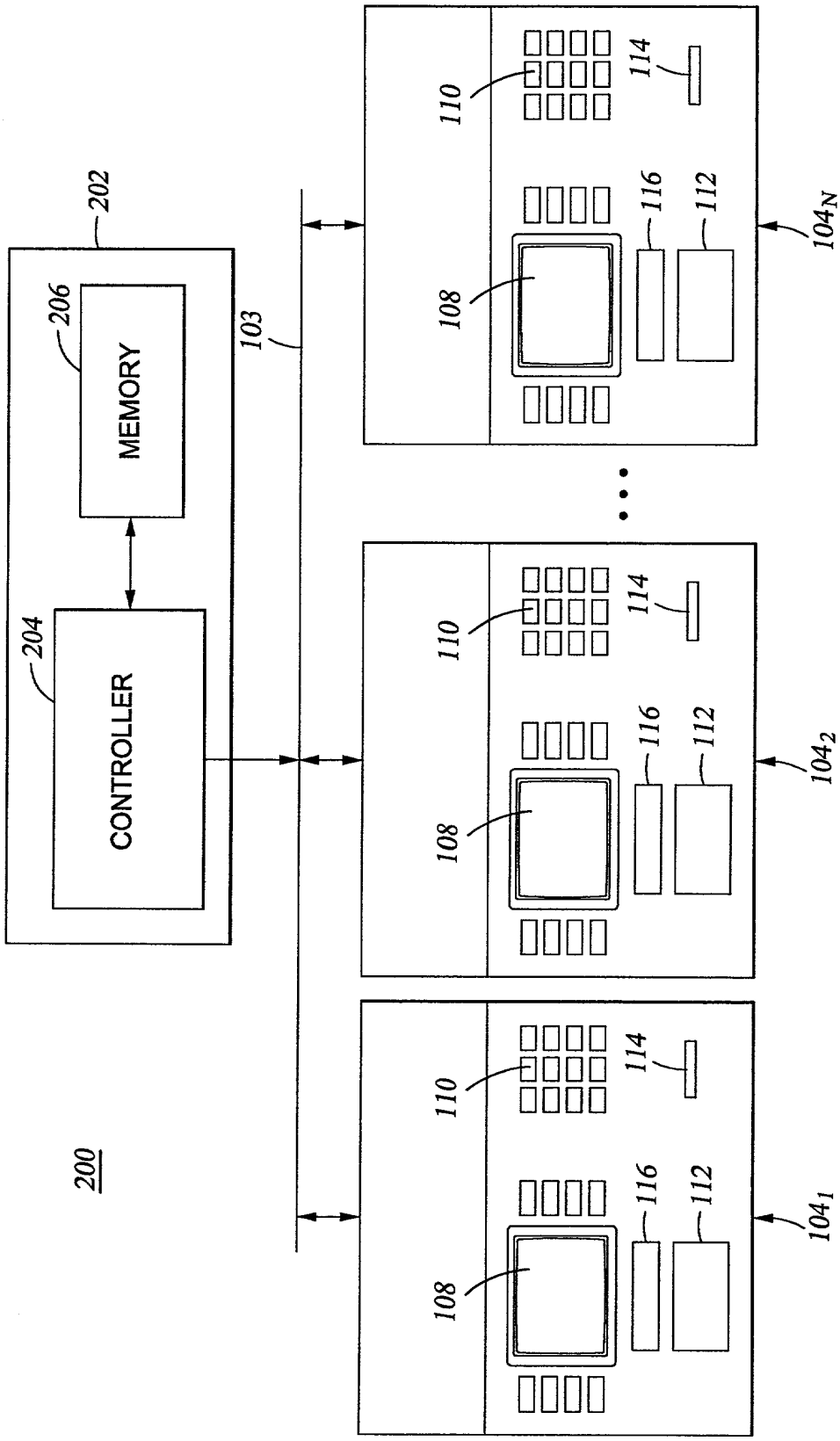

200
202
206
MEMORY
204
CONTROLLER
103
110
114
116
112
108
104_N
104_2
104_1

Fig. 2

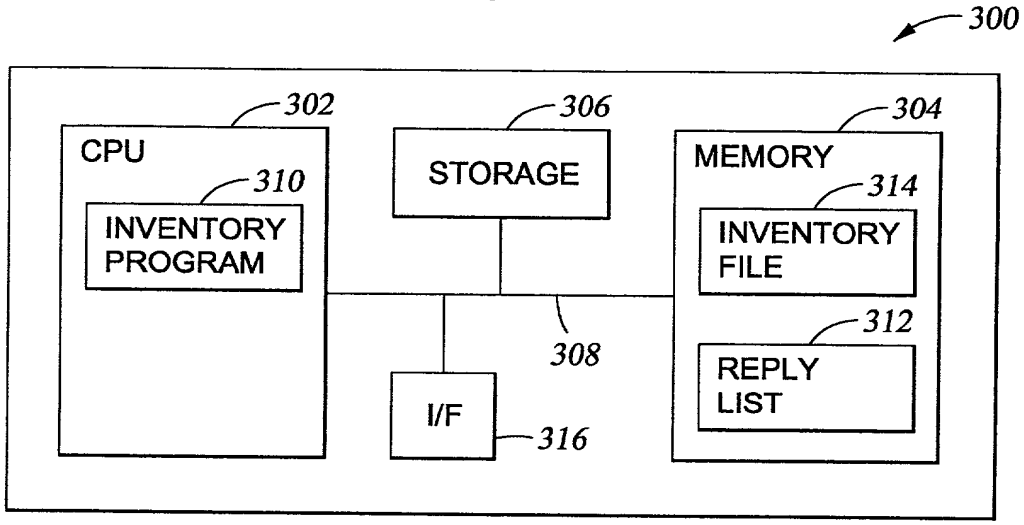


Fig. 3

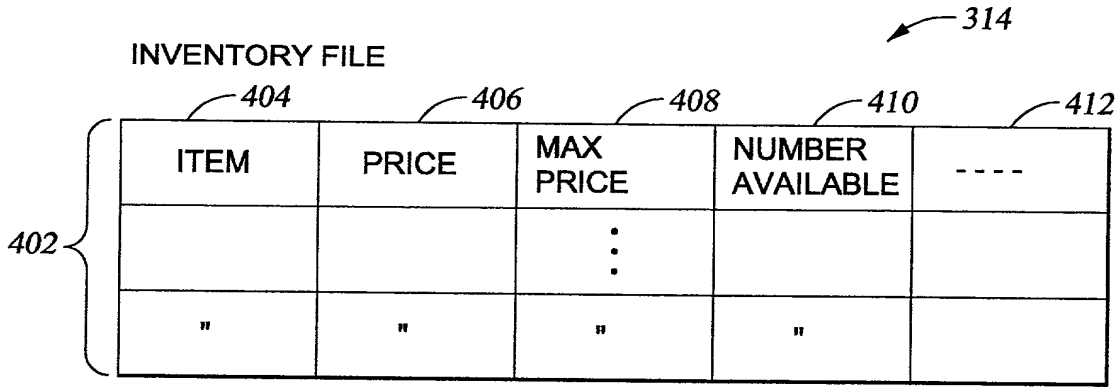


Fig. 4

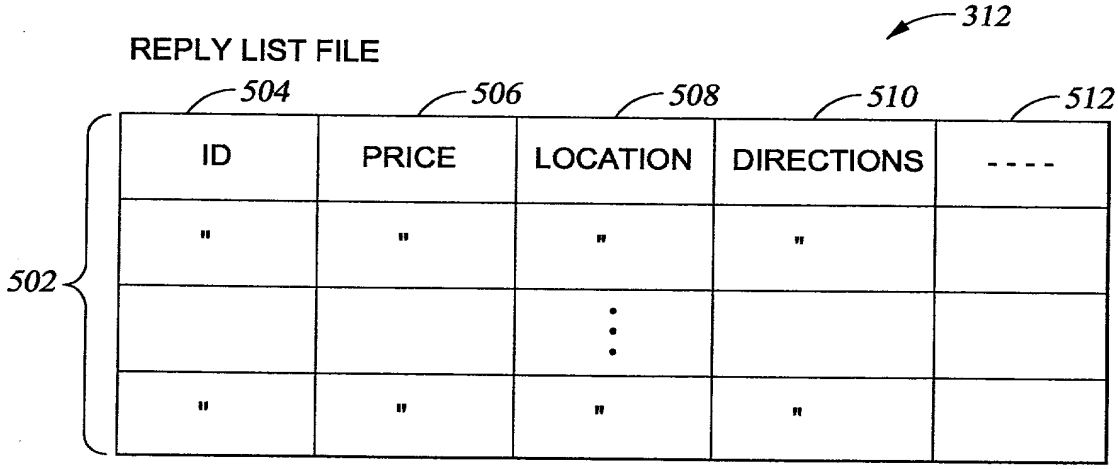


Fig. 5

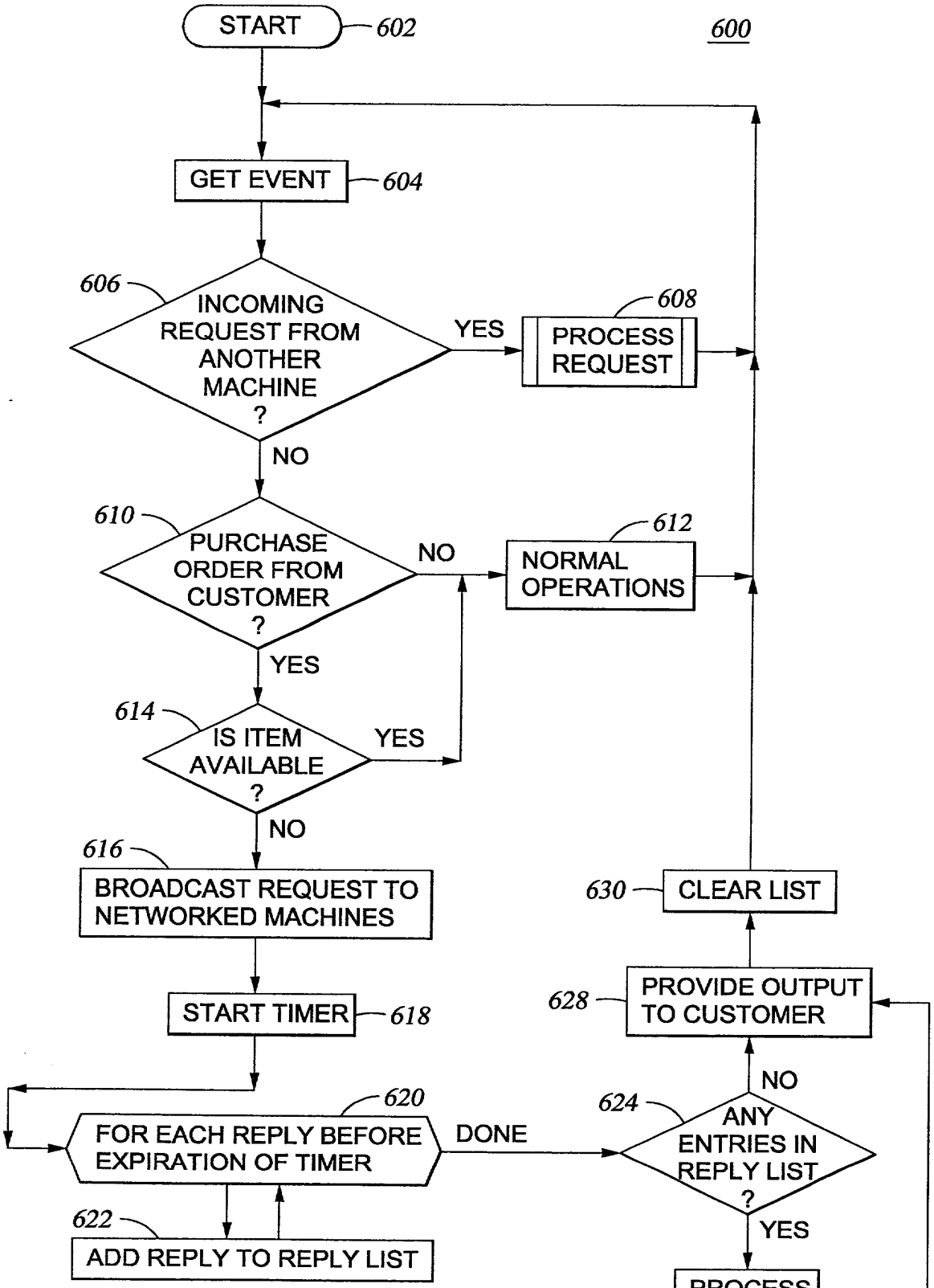

START
602
600
GET EVENT
604
606
INCOMING REQUEST FROM ANOTHER MACHINE ?
YES
608
PROCESS REQUEST
NO
610
PURCHASE ORDER FROM CUSTOMER ?
NO
612
NORMAL OPERATIONS
YES
614
IS ITEM AVAILABLE ?
YES
NO
616
BROADCAST REQUEST TO NETWORKED MACHINES
START TIMER
618
620
FOR EACH REPLY BEFORE EXPIRATION OF TIMER
DONE
622
ADD REPLY TO REPLY LIST
624
ANY ENTRIES IN REPLY LIST ?
NO
YES
626
PROCESS ENTRIES
628
PROVIDE OUTPUT TO CUSTOMER
630
CLEAR LIST

Fig. 6

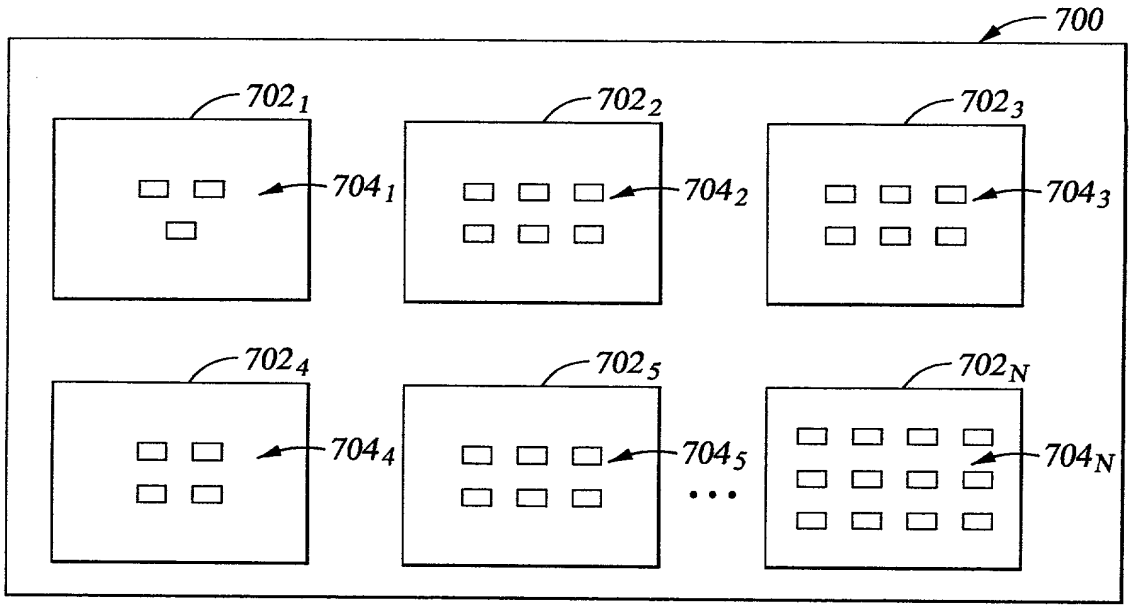

700
702_1
704_1
702_2
704_2
702_3
704_3
702_4
704_4
702_5
704_5
702_N
704_N

Fig. 7

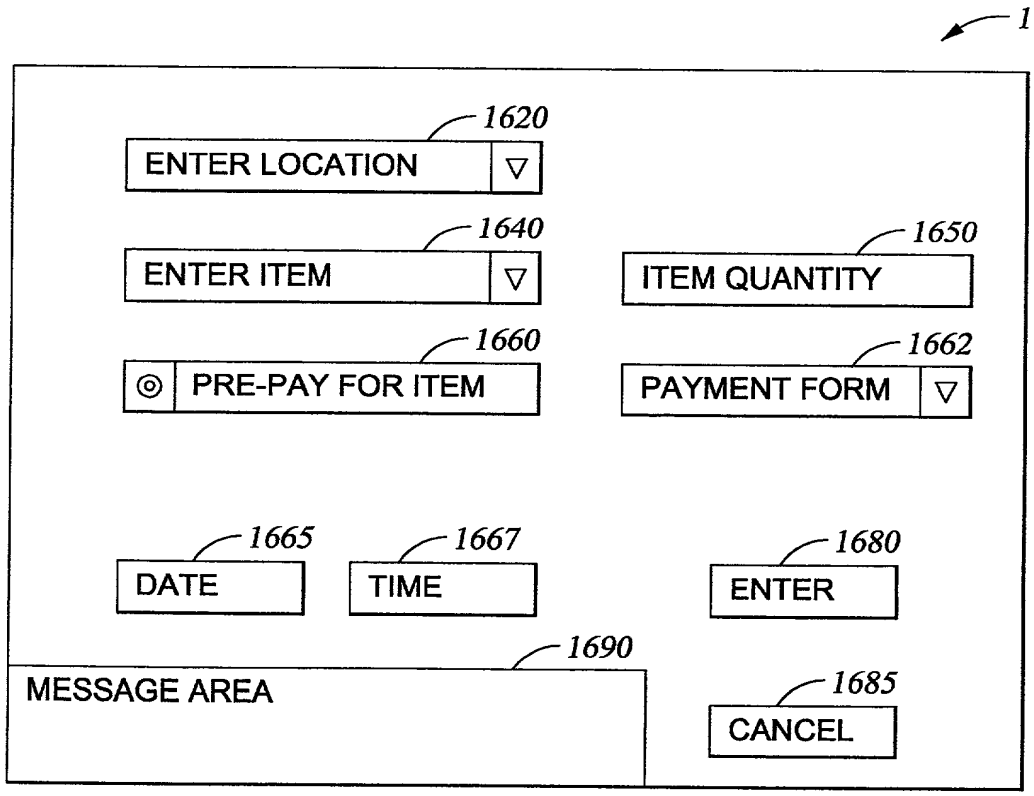

1600
1620
ENTER LOCATION
1640
ENTER ITEM
1650
ITEM QUANTITY
1660
PRE-PAY FOR ITEM
1662
PAYMENT FORM
1665
DATE
1667
TIME
1680
ENTER
1690
MESSAGE AREA
1685
CANCEL

Fig. 16

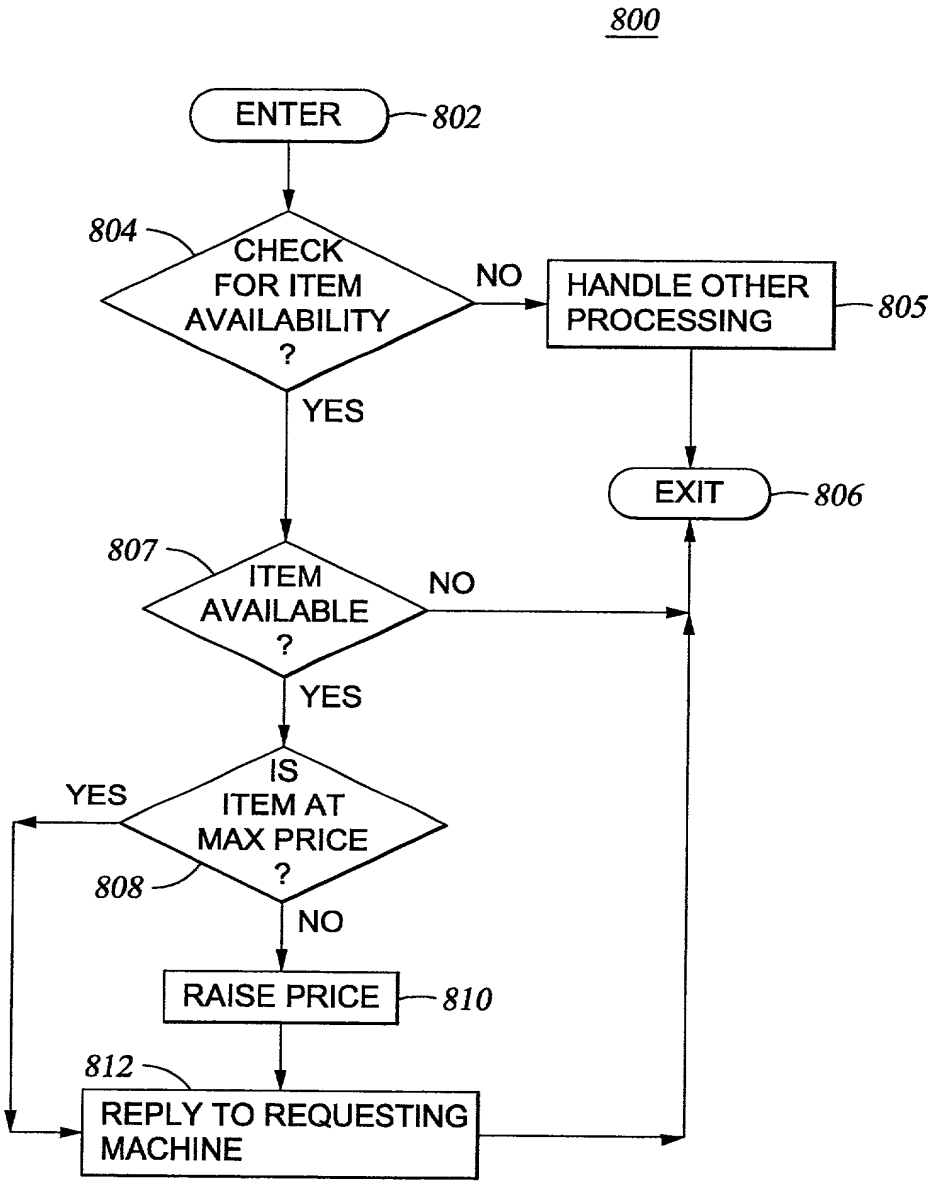

800
ENTER
802
804
CHECK FOR ITEM AVAILABILITY ?
NO
HANDLE OTHER PROCESSING
805
YES
EXIT
806
807
ITEM AVAILABLE ?
NO
YES
IS ITEM AT MAX PRICE ?
YES
808
NO
RAISE PRICE
810
812
REPLY TO REQUESTING MACHINE

Fig. 8

Atty Dkt. No. ROC920010079US1
U.S. Serial No.: UNKNOWN
File : HEREWITH
Inventor: BATES ET AL.
Express Mail No.: EL849146396US
Sheet 7 of 14

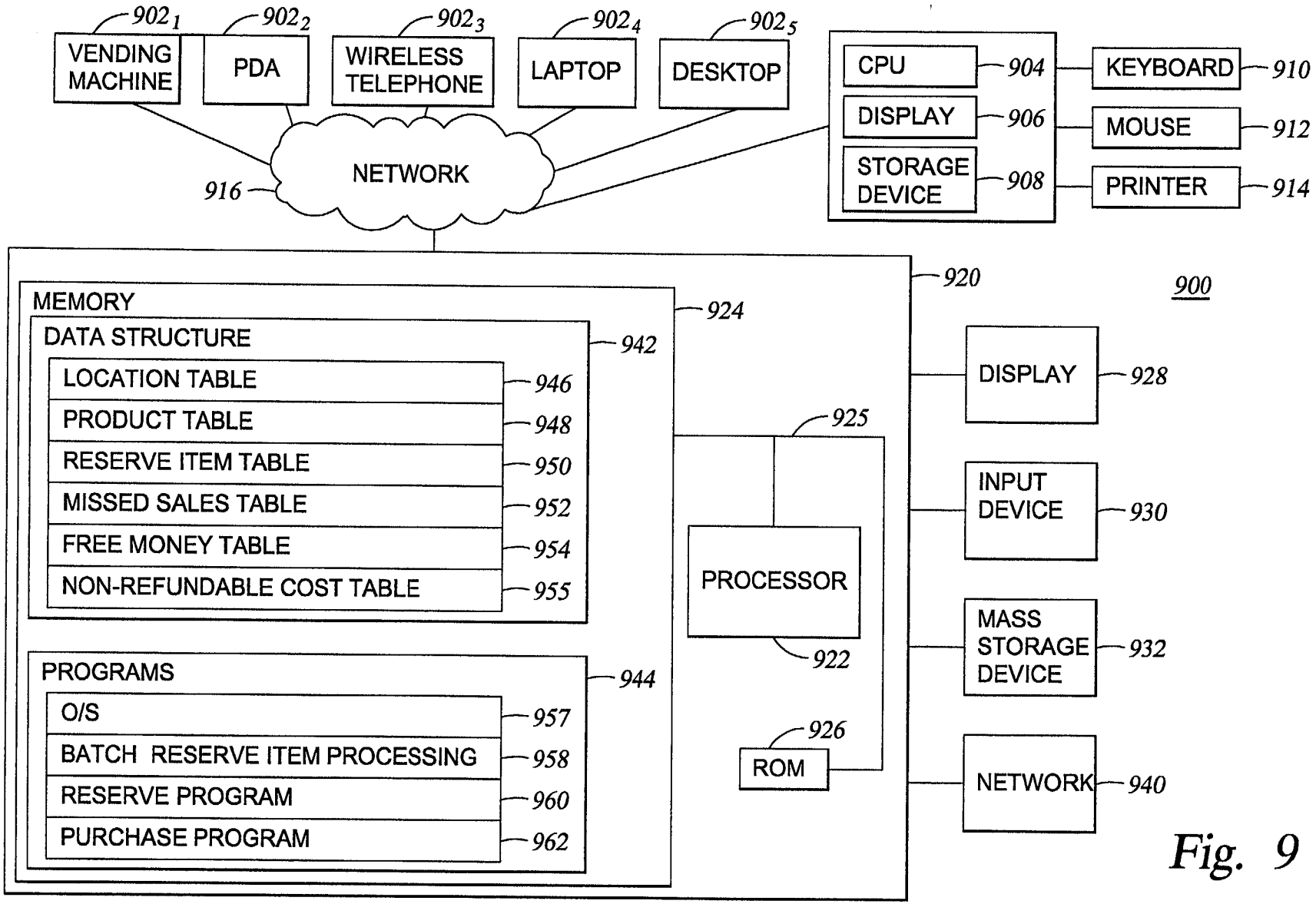


Fig. 9

TOE050 "2758+860

Location Table

Location ID	Physical Location	Description	...
1002	1004	1006	1008

946

Fig. 10

Product Table

Location ID	Item ID	Quantity Available	Quantity Reserved	Price	...
1102	1104	1106	1108	1110	1112

948

Fig. 11

Reserved Item Table

Location ID	Item ID	Customer ID	Quantity	Payment Form	Date/ Time	Non-Refundable Y/N	Non-Refundable Cost	Pre-Paid	Confirmation Number	...
1202	1204	1206	1208	1210	1212	1214	1216	1218	1220	1222

950

Fig. 12

Missed Sales

Location ID	Item ID	Missed Quantity	Reason	...
1302	1304	1306	1308	1310

952

Fig. 13

Atty. Dkt. No. ROC920010079US1
U.S. Serial No.: UNKNOWN
Filed: HEREWITH
Inventor: BATES ET AL.
Express Mail No.: EL849146396US
Sheet 8 of 14

TOE050 "2758860

Free Money Table

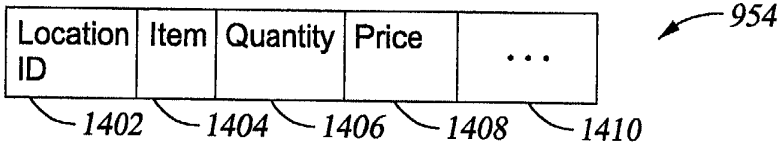


Fig. 14

Non-Refundable Cost Table

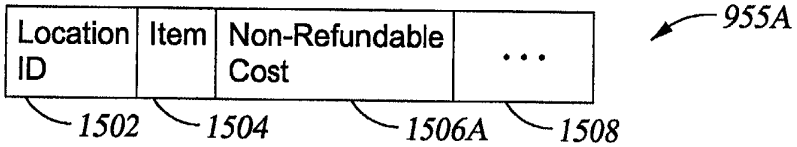


Fig. 15A

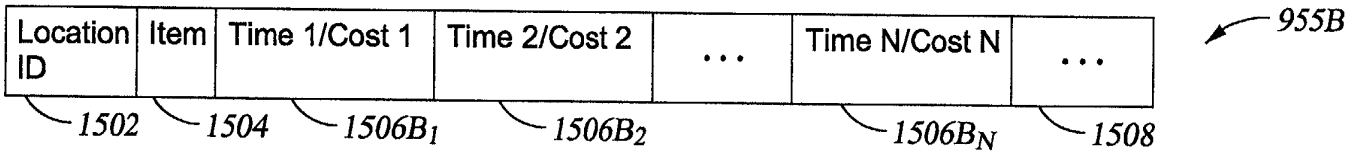
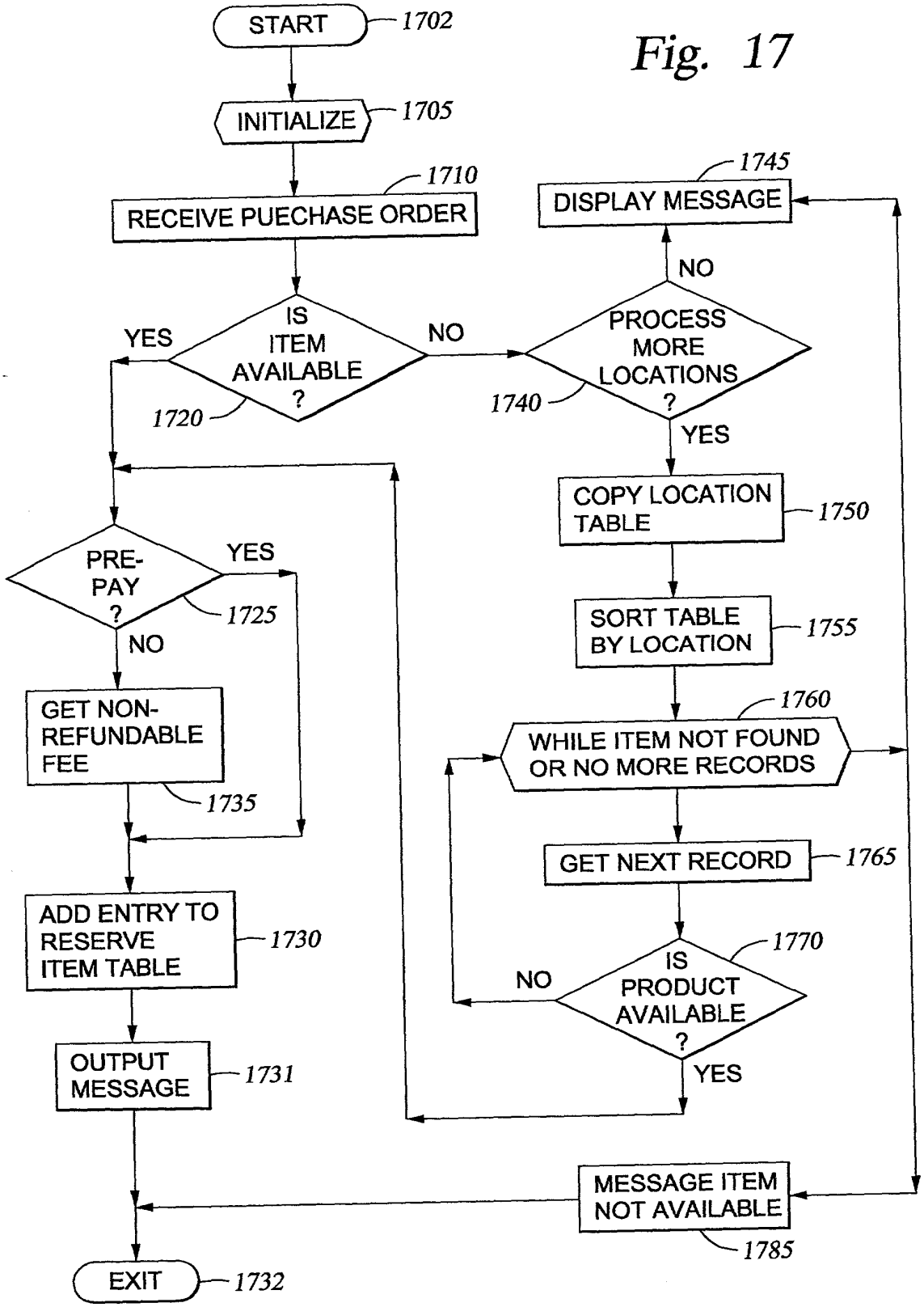


Fig. 15B

Fig. 17


START
1702
INITIALIZE
1705
RECEIVE PUECHASE ORDER
1710
IS ITEM AVAILABLE ?
1720
YES
NO
PROCESS MORE LOCATIONS ?
1740
NO
YES
DISPLAY MESSAGE
1745
COPY LOCATION TABLE
1750
SORT TABLE BY LOCATION
1755
WHILE ITEM NOT FOUND OR NO MORE RECORDS
1760
GET NEXT RECORD
1765
IS PRODUCT AVAILABLE ?
1770
NO
YES
PRE-PAY ?
1725
YES
NO
GET NON-REFUNDABLE FEE
1735
ADD ENTRY TO RESERVE ITEM TABLE
1730
OUTPUT MESSAGE
1731
MESSAGE ITEM NOT AVAILABLE
1785
EXIT
1732

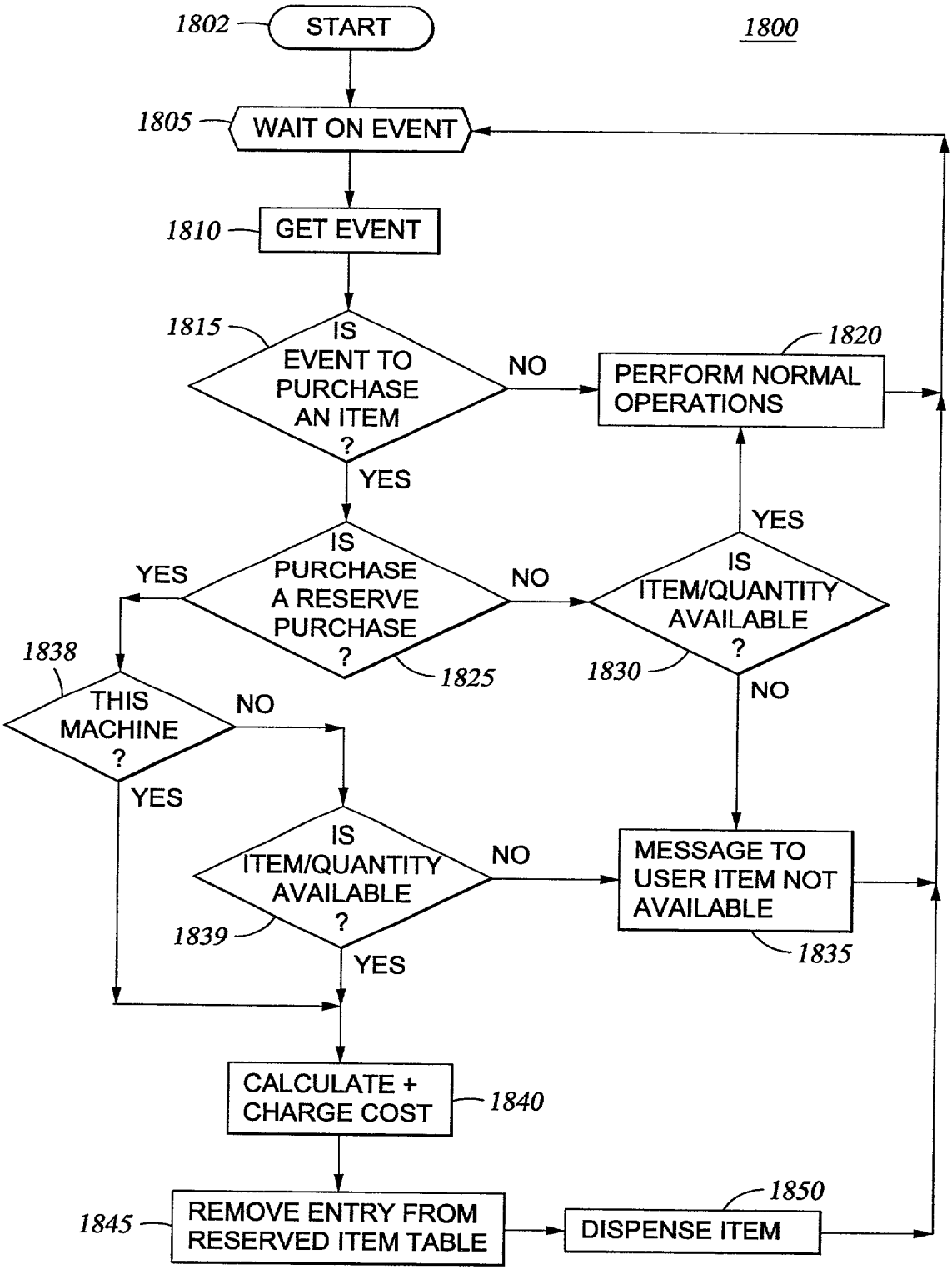

1802
START
1800
1805
WAIT ON EVENT
1810
GET EVENT
1815
IS EVENT TO PURCHASE AN ITEM ?
NO
1820
PERFORM NORMAL OPERATIONS
YES
IS PURCHASE A RESERVE PURCHASE ?
YES
NO
1825
IS ITEM/QUANTITY AVAILABLE ?
1830
YES
NO
1838
THIS MACHINE ?
NO
YES
IS ITEM/QUANTITY AVAILABLE ?
NO
1839
MESSAGE TO USER ITEM NOT AVAILABLE
1835
YES
CALCULATE + CHARGE COST
1840
1845
REMOVE ENTRY FROM RESERVED ITEM TABLE
1850
DISPENSE ITEM

Fig. 18

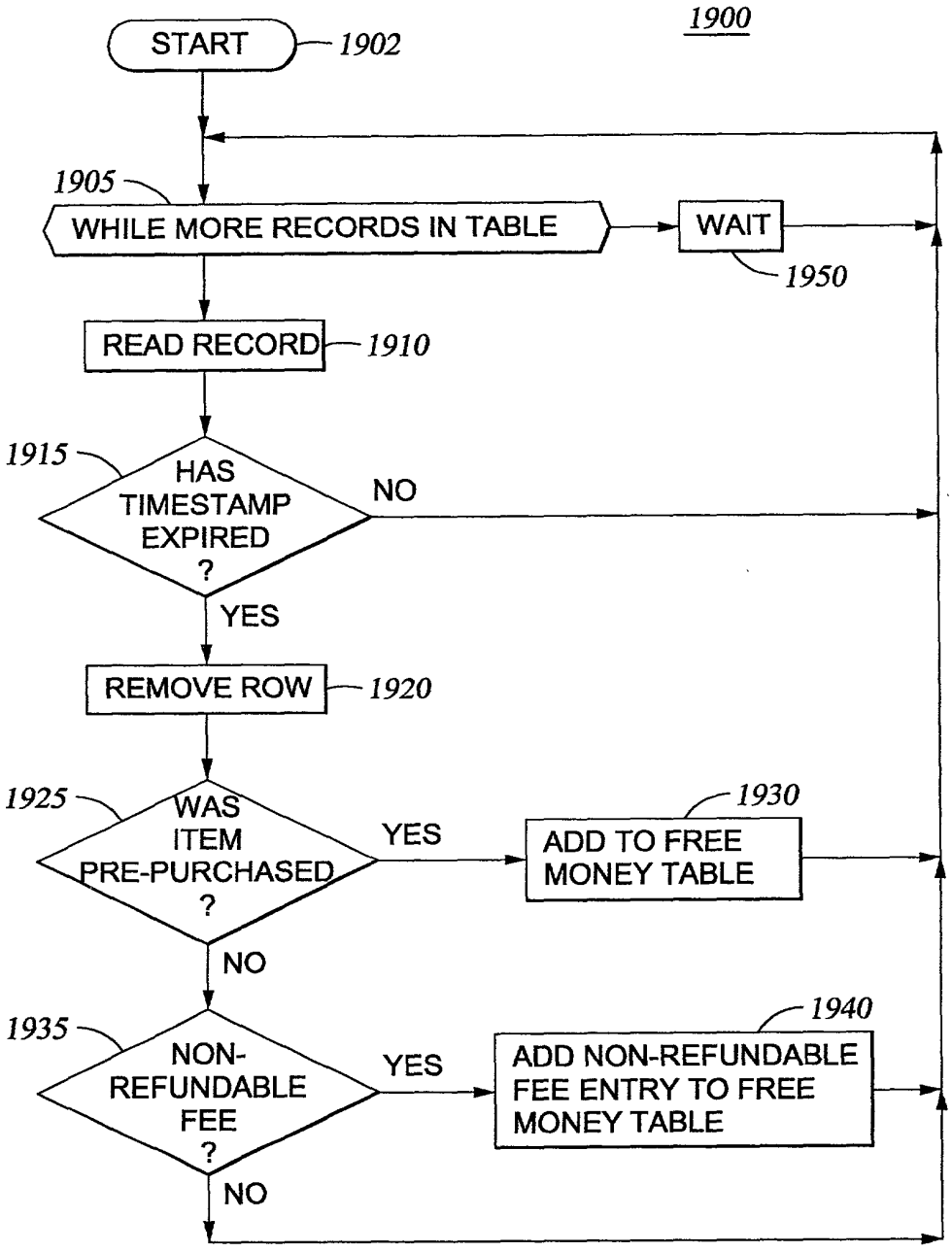

1900
START
1902
1905
WHILE MORE RECORDS IN TABLE
WAIT
1950
READ RECORD
1910
1915
HAS TIMESTAMP EXPIRED ?
NO
YES
REMOVE ROW
1920
1925
WAS ITEM PRE-PURCHASED ?
YES
1930
ADD TO FREE MONEY TABLE
NO
1935
NON-REFUNDABLE FEE ?
YES
1940
ADD NON-REFUNDABLE FEE ENTRY TO FREE MONEY TABLE
NO

Fig. 19

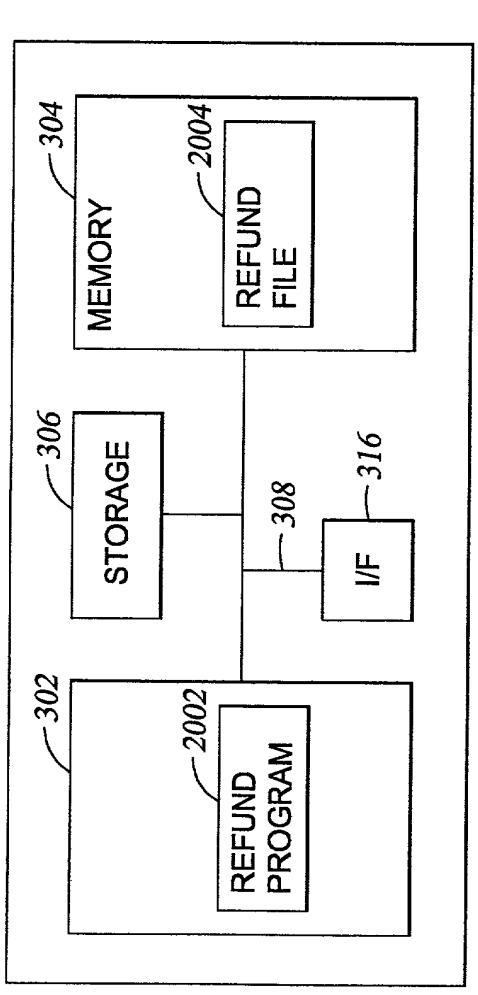

2000
302
2002
REFUND PROGRAM
304
MEMORY
2004
REFUND FILE
306
STORAGE
308
316
I/F

Fig. 20

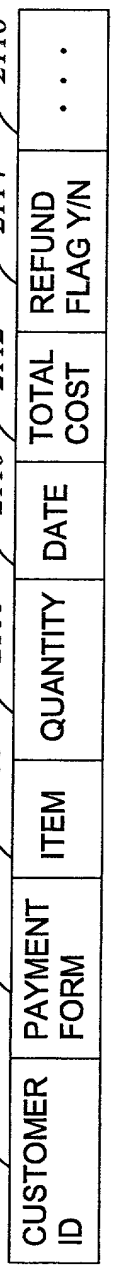

2004
2102
CUSTOMER ID
2104
PAYMENT FORM
2106
ITEM
2108
QUANTITY
2110
DATE
2112
TOTAL COST
2114
REFUND FLAG Y/N
2116
. . .

Fig. 21

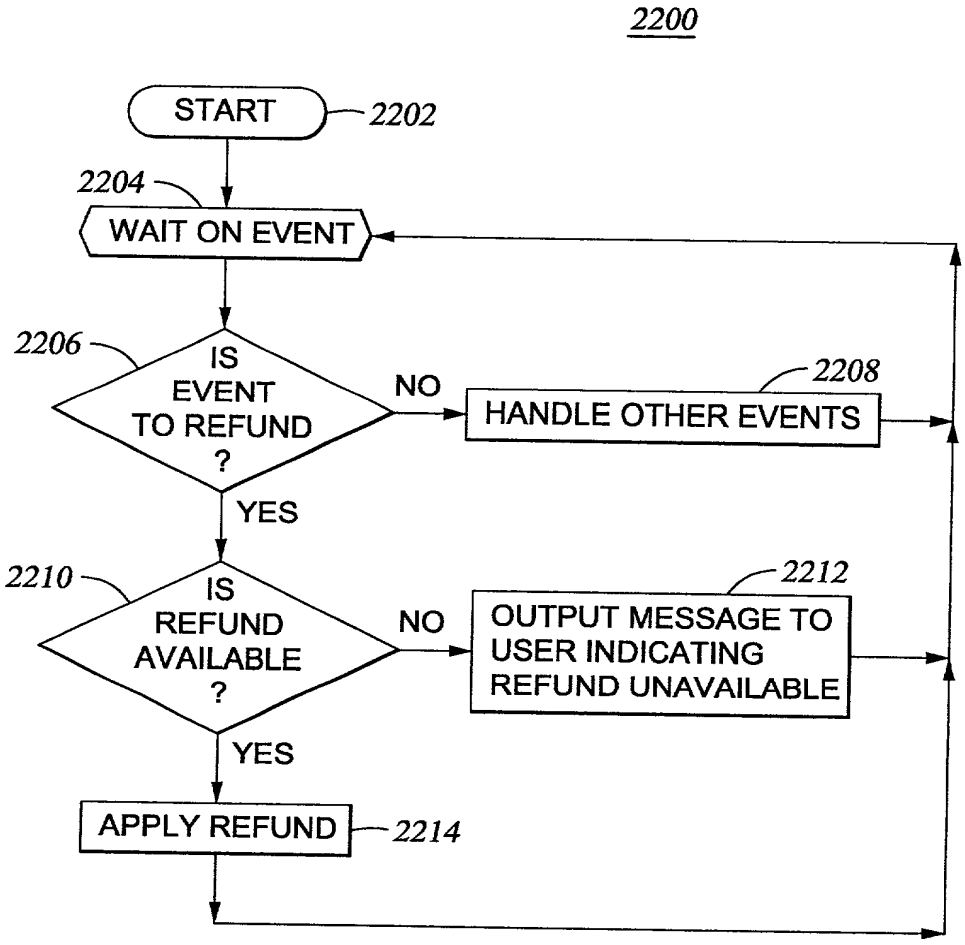

2200
START
2202
2204
WAIT ON EVENT
2206
IS EVENT TO REFUND ?
NO
2208
HANDLE OTHER EVENTS
YES
2210
IS REFUND AVAILABLE ?
NO
2212
OUTPUT MESSAGE TO USER INDICATING REFUND UNAVAILABLE
YES
APPLY REFUND
2214

Fig. 22